

50-296

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER
INCIDENT REPORT

TO: KMr N C Moseley

FROM: Tennessee Valley Authority
Chattanooga, Tn
H S FoxDATE OF DOCUMENT
2-17-77

DATE RECEIVED 2-22-77

☒ LETTER
☐ ORIGINAL
☒ COPY☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED
one signed

DESCRIPTION

Ltr trans the following:

1p

PLANT NAME: Browns Ferry #3

ENCLOSURE

Licensee Event Report (RO# 771) on 1-22-77
concerning opening of relief valve on pump
discharge at lower than set pressure.....
due to valve malfunction.....

1p

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION

2-23-77 chf

BRANCH CHIEF:

Schwencer

W/3 CYS FOR ACTION

LIC. ASST.:

Sheppard

W/1 CYS

ACRS 16 CYS HOLDING/SENT

AS CAT B

INTERNAL DISTRIBUTION

REG FILE

NRC-PDR

I & E (2)

MIPC

SCHROEDER/IPPOLITO

HOUSTON

NOVAK/CHECK

GRIMES

CASE

BUTLER

HANAUER

TEDESCO/MACCARY

EISENHUT

BAER

SHAO

VOLLMER/BUNCH

KREGER/J. COLLINS

EXTERNAL DISTRIBUTION

LPDR: Athens, Ala

TIC:

NSIC:

CONTROL NUMBER

1813

77-11-2

1
10/10/77
10/10/77
10/10/77

77-22-2

one side

77-22-2 (177) on 1-22-77
to contain copies of all
documents in file of 77-22-2
.....
the no. of the file of 77-22-2

10/10/77

2

10/10/77

77-22-2

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

February 17, 1977

REGULATORY DOCKET FILE COPY

Mr. Norman C. Moseley, Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
230 Peachtree Street, NW., Suite 1217
Atlanta, Georgia 30303



Dear Mr. Moseley:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 3 -
DOCKET NO. 50-296 - FACILITY OPERATING LICENSE DPR-68 - REPORTABLE
OCCURRENCE REPORT BERO-50-296/771

The enclosed report is to provide details concerning the relief valve on the pump discharge which opened at lower than set pressure during performance of Surveillance Instruction 4.4.A.1 on standby liquid control pump 3A. This report is submitted in accordance with Browns Ferry Technical Specifications Section 6. This event occurred on Browns Ferry unit 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

H. S. Fox
Director of Power Production



Enclosure (3)

CC (Enclosure):

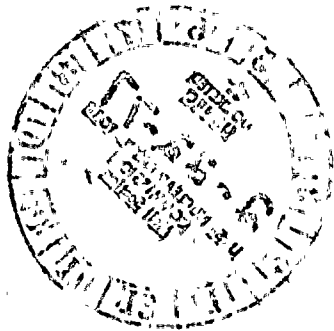
Director (3)
Office of Management Information and Program Control
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Director (40)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

1813



RECEIVED BY MAIL



1813

LICENSEE EVENT REPORT

CONTROL BLOCK:

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1 6

[PLEASE PRINT ALL REQUIRED INFORMATION]

**LICENSEE
NAME**

LICENSE NUMBER

**LICENSE
TYPE**

**EVENT
TYPE**

01	A	L	B	R	F	3	0	0	-	0	0	0	0	-	0	0	4	1	1	1	1	0	3														
7	8	9				14											25						26						30			31	32				
01		CON'T		CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER								EVENT DATE					REPORT DATE														
0	1			57	58	L	L									0					1	2	2	7	7												
7	8			57	58	59	60														61						69						74	75			80

EVENT DESCRIPTION

02	During performance of Surveillance Instruction 4.4.A.1 on Standby Liquid Control	80
03	Pump 3A, the relief valve on the pump discharge opened at lower than set pressure.	80
04	The relief valve was replaced. (BFR0-50-296/771)	80
05		80
06		80

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

SYSTEM CAUSE COMPONENT COMPONENT COMPONENT
CODE CODE CODE SUPPLIER MANUFACTURER VIOLATION

07 SH E VALVEX N C710 N

CAUSE DESCRIPTION

08	Valve replaced and returned to manufacturer for determining cause of malfunction.	80
09		80
10		80

FACILITY STATUS		% POWER			OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
11	E	1	0	0	NA		E		NA	
7	8	9	10	12	13	44	45	46	80	

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE
1	2	3	NA	NA
7	8	9	10	11
				44
				45
				80

PERSONNEL EXPOSURES

NUMBER				TYPE	DESCRIPTION
1	3	Z	Z	Z	NA

PERSONNEL INJURIES

NUMBER			DESCRIPTION
1	4		NA

OFFSITE CONSEQUENCES

1	5	NA										
7	8	9	80									

LOSS OR DAMAGE TO FACILITY

TYPE			DESCRIPTION
1	3	Z	NA

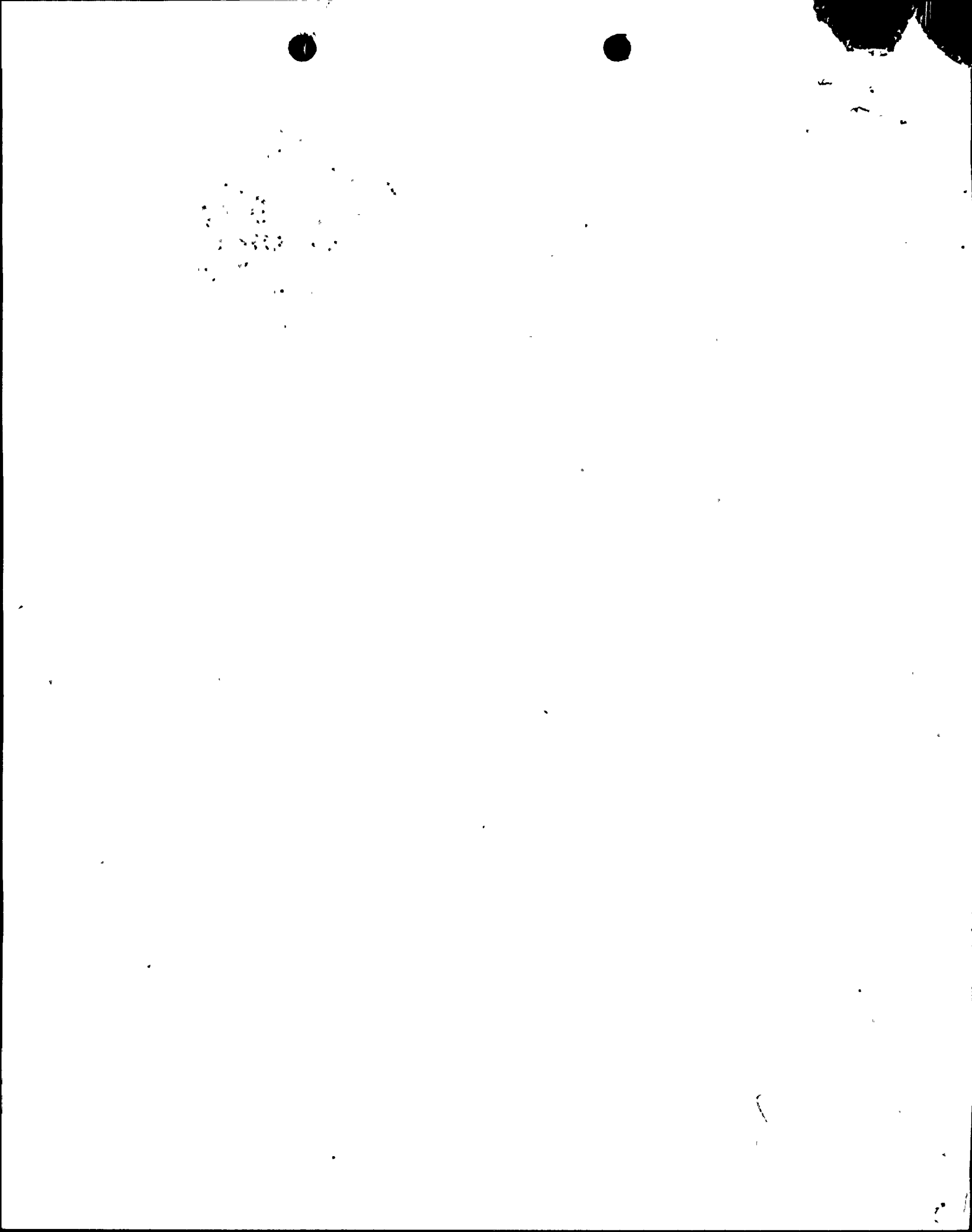
PUBLICITY

17	NA	ED
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ADDITIONAL FACTORS

13	NA	80
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19 89 60



TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

February 17, 1977

Mr. Norman C. Moseley, Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
230 Peachtree Street, NW., Suite 1217
Atlanta, Georgia 30303

Dear Mr. Moseley:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 3 -
DOCKET NO. 50-296 - FACILITY OPERATING LICENSE DPR-68 - REPORTABLE
OCCURRENCE REPORT BFRO-50-296/771

The enclosed report is to provide details concerning the relief valve on the pump discharge which opened at lower than set pressure during performance of Surveillance Instruction 4.4.A.1 on standby liquid control pump 3A. This report is submitted in accordance with Browns Ferry Technical Specifications Section 6. This event occurred on Browns Ferry unit 3.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


H. S. Fox

Director of Power Production

Enclosure (3)

CC (Enclosure):

Director (3)

Office of Management Information and Program Control

U.S. Nuclear Regulatory Commission

Washington, D.C. 20555

Director (40)

Office of Inspection and Enforcement

U.S. Nuclear Regulatory Commission

Washington, D.C. 20555

4 20 2020

Demographic Group	U.S. should take action (%)	U.S. should not take action (%)
18-29	~85	~15
30-49	~80	~20
50-69	~75	~25
70+	~65	~35
High School	~70	~30
College	~80	~20
Graduate	~85	~15

[illegible]

$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the medium containing 100 mg/l of tetracycline. The cell concentration of the *Agrobacterium* strains was adjusted to 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and incubated for 24 h. The plant tissue was then cultured on the medium containing 100 mg/l of tetracycline. The transformation efficiency was determined by the number of colonies on the medium containing 100 mg/l of tetracycline. The results are shown as the mean \pm SD of three independent experiments.

Figure 1 is a 3D scatter plot illustrating the relationship between the number of children (x-axis), the number of children in the household (y-axis), and the number of children in the neighborhood (z-axis). The x-axis ranges from 0 to 10, the y-axis from 0 to 10, and the z-axis from 0 to 10. The plot shows a positive correlation between the number of children in the household and the number of children in the neighborhood, with a cluster of points at the origin (0,0,0).

Trial	Control (n = 10)	MCI (n = 10)	AD (n = 10)
1	95	85	75
2	95	85	75
3	95	80	70
4	95	75	65
5	95	75	65

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE
NAME

LICENSE NUMBER

LICENSE
TYPE

EVENT
TYPE

01 A L B R F 3 0 0 - 0 0 0 0 0 - 0 0 4 1 1 1 1 0 3

CATEGORY

REPORT
TYPE

REPORT
SOURCE

DOCKET NUMBER

EVENT DATE

REPORT DATE

01 CON'T L L 0 5 0 - 0 2 9 6 0 1 2 2 7 7

EVENT DESCRIPTION

02 During performance of Surveillance Instruction 4.4.A.1 on Standby Liquid Control

03 Pump 3A, the relief valve on the pump discharge opened at lower than set pressure.

04 The relief valve was replaced. (BFRO-50-296/771)

05

06

SYSTEM
CODE

CAUSE
CODE

COMPONENT CODE

PRIME
COMPONENT
SUPPLIER

COMPONENT
MANUFACTURER

VIOLATION

07 S H E V A L V E X N C 7 1 0 N

CAUSE DESCRIPTION

08 Valve replaced and returned to manufacturer for determining cause of malfunction.

09

10

FACILITY
STATUS

% POWER

OTHER STATUS

METHOD OF
DISCOVERY

DISCOVERY DESCRIPTION

11 E 1 0 0 NA E NA

FORM OF
ACTIVITY
RELEASED

CONTENT
OF RELEASE

AMOUNT OF ACTIVITY

LOCATION OF RELEASE

12 Z Z Z Z NA NA

PERSONNEL EXPOSURES

13 Z Z Z Z NA

PERSONNEL INJURIES

14 Z Z Z Z NA

OFFSITE CONSEQUENCES

15 NA

LOSS OR DAMAGE TO FACILITY

16 Z NA

PUBLICITY

17 NA

ADDITIONAL FACTORS

18 NA

19

